

Q2 a DNA which hybridizes with this DNA under stringent conditions and which encodes a polypeptide having  $\beta$ -ketoacyl-ACP synthase activity.

Page 11, fifth paragraph starting on line 29 and continuing to page 12,

Q3 (26) A DNA comprising the nucleotide sequence selected from the group consisting of nucleotide Nos. 1441-2742, 6256-7545, 12076-13368, 15217-16506, 20008-21297 and 24781-26079 of SEQ ID NO: 1, and nucleotide Nos. 100-1383, 4771-6060, 7906-9258, 14935-16224, 20413-21705, and 25810-27102 of SEQ ID NO: 2; or  
a DNA which hybridizes with this DNA under stringent conditions and which encodes a polypeptide having  $\beta$ -ketoacyl-ACP synthase activity.

Page 13, fourth paragraph starting on line 21 and continuing to page 14,

Q4 (33) A polypeptide comprising the amino acid sequence selected from the group consisting of amino acid Nos. 29-344, 366-451, 481-914, 1050-1356, 1715-1892, 1979-2060, 2086-2515, 2983-3128, 3537-3714 and 3805-3886 of SEQ ID NO: 3, amino acid Nos. 36-466, 596-908, 978-1059, 1083-1512, 1653-1964, 2306-2483, 2575-2656, 2680-3109, 3230-3538, 3878-4056, 4159-4240, 4271-4703, 4815-5122, 5168-5307, 5753-5930 and 6032-6113 of SEQ ID NO: 4, amino acid Nos. 34-461, 550-891, 1212-1396, 1483-1564, 1591-2020, 2108-2448, 2525-2606, 2636-3086, 3226-3591, 3629-3763, 4183-4363, 4460-4553 and 4627-4873 of SEQ ID NO: 5, amino acid Nos. 38-467, 574-914, 956-1081, 1488-1673, 1756-1837, 1864-2294, 2390-2732, 2776-2902, 3288-3473, 3556-3637, 3663-4093, 4182-4523, 4565-4685, 5085-5270 and 5353-5434 of SEQ ID NO: 6; or  
a polypeptide comprising an amino acid sequence wherein one or more amino acids are deleted, replaced or added in the amino acid sequence selected above, and having avermectin aglycon synthase domain activity.

Page 24, fourth paragraph starting on line 25 and continuing to page 25,

a5  
in SEQ ID NO: 4,  
KS3: 36 to 466,  
AT3: 596 to 908,  
ACP3: 978 to 1059,  
KS4: 1083 to 1512,  
AT4: 1653 to 1964,  
KR4: 2306 to 2483,  
ACP4: 2575 to 2656,  
KS5: 2680 to 3109,  
AT5: 3230 to 3538,  
KR5: 3878 to 4056,  
ACP5: 4159 to 4240,  
KS6: 4271 to 4703,  
AT6: 4815 to 5122,  
DH6: 5168 to 5307  
KR6: 5753 to 5930,  
ACP6: 6032 to 6113;

09914286-082401

Page 26, third paragraph starting on line 21,

a6  
In other words, based on the above module, domain and ORF information obtained from DNAs having nucleotide sequences of SEQ ID NO: 1 and 2 derived from *Streptomyces avermitilis*, modules, domains and ORFs, which are relevant to the Avermectin aglycon synthase genes derived from other bacteria capable of producing avermectin, can be determined.

Page 35, first paragraph starting on line 1,

a7  
Specific examples include SP2/O, NSO and the like for mouse myeloma cells, YB2/O and the like for rat myeloma cells, HEK293 (ATCC: CRL-1573) and the like for